

BRANDT ET AL.

"Reselection Optimization in Mobile Wireless
Communication Devices And Methods Therefor"
Atty. Docket No. CS20456RL

Appl. No. 10/074,970

Confirm. No. 6905

Examiner L. West

Art Unit 2682

In The Claims:

1. (Original) A method in a mobile wireless communication
5 device, comprising:

receiving present paging information;

performing present signal measurements while receiving the
present paging information;

10 performing present reselection processing on prior signal
measurements while performing present signal measurements.

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15 2. (Currently Amended) The method of Claim 1, performing [the]
prior signal measurements while receiving prior paging information before
receiving the present paging information.

20 3. (Currently Amended) The method of Claim 1, reducing power
consumption by performing the present reselection processing on the prior
signal measurements while receiving the present paging information,
performing [the] prior signal measurements while receiving prior paging
information before receiving the present paging information.

25 4. (Original) The method of Claim 1, reducing power consumption
by performing the present reselection processing, based upon the prior signal

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measurements, and receiving the present paging information in a substantially overlapping time period.

5 5. (Original) The method of Claim 1, entering a minimal power consumption mode while not receiving paging information and not performing signal measurements and not performing reselection processing.

10 A/ 6. (Original) The method of Claim 5, maximizing minimal power consumption mode operation by performing the reselection processing while substantially concurrently receiving the paging information.

15 7. (Original) The method of Claim 1, receiving present paging information, performing present signal measurements, and performing reselection processing while operating the wireless communication device in idle mode.

20 8. (Original) A method in a mobile wireless communication device that receives paging information and performs neighbor signal measurements, comprising:

 receiving present paging information;

25 performing present signal measurements while receiving the present paging information;

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performing reselection processing while receiving present paging information;

reducing power consumption by performing the reselection processing on prior signal measurements performed while receiving prior
5 paging information.

10 9. (Original) The method of Claim 8, entering a minimal power consumption mode when not receiving paging information and not performing signal measurements and not performing reselection processing.

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10. (Original) The method of Claim 8, maximizing minimal power consumption mode operation by performing the reselection processing while substantially concurrently receiving the paging information.

20 11. (Original) The method of Claim 8, receiving present paging information, performing present signal measurements, and performing reselection processing while operating the wireless communication device in idle mode.

25 12. (Original) A method in a wireless communication device,
comprising:
receiving periodic paging information;

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5 performing periodic signal measurements;
performing periodic reselection processing;
reducing power consumption by receiving at least a portion of the
periodic paging information concurrently with performing at least a portion of
the periodic signal measurements and performing at least a portion of the
periodic reselection processing.

10 13. (Original) The method of Claim 12, performing present
reselection processing on prior signal measurements while performing present
signal measurements.

15 14. (Original) The method of Claim 12, operating in a minimal
power consumption mode when not receiving periodic paging information
and not performing periodic signal measurements and not performing
periodic reselection processing.

20 15. (Original) A method in a TDMA wireless communication
device that receives periodic paging blocks and performs periodic neighbor
signal measurements, comprising:

25 receiving a present paging block;
performing present neighbor cell signal strength measurements
while receiving the present paging block;

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performing reselection processing for prior neighbor cell signal strength measurements while receiving the present paging block and performing the present neighbor cell signal strength measurements.

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16. (Original) The method of Claim 15, reducing power consumption by operating in a minimal power consumption mode when not receiving periodic paging blocks and not performing periodic neighbor cell signal strength measurements and not performing reselection processing.

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15 17. (Original) The method of Claim 15, reducing power consumption by receiving at least a portion of the periodic paging blocks, performing at least a portion of the periodic neighbor cell signal strength measurements, and performing at least a portion of the reselection processing concurrently.

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20 18. (Original) A method in a WCDMA wireless communication device that receives periodic paging indicator channel blocks and performs periodic reselection processing, comprising:

receiving a present paging indicator channel block;

performing present signal measurements while receiving the present paging indicator channel block;

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performing reselection processing for prior signal measurements while receiving the present paging indicator channel block and performing the present signal measurements.

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X/ 19. (Original) The method of Claim 18, reducing power consumption by operating in a minimal power consumption mode when not receiving periodic paging indicator blocks and when not performing periodic signal measurements and not performing reselection processing.

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15 20. (Original) The method of Claim 18, performing signal measurements between receiving periodic paging indicator blocks when the period between the periodic paging indicator blocks is greater than a predetermined period.